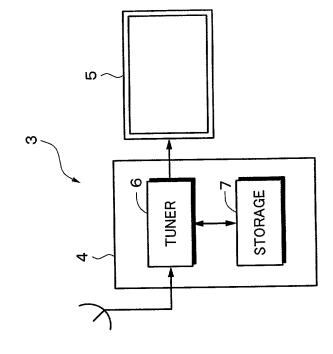
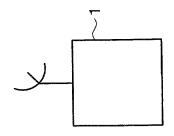
Fig.





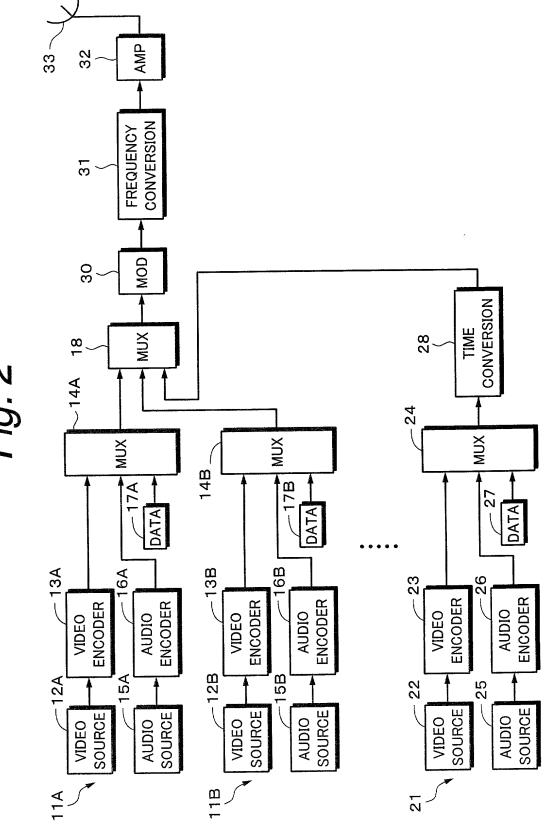
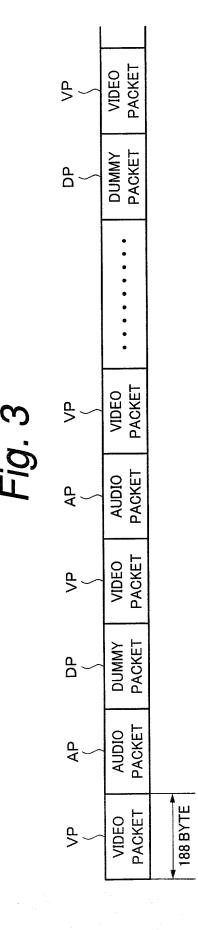


Fig. 2



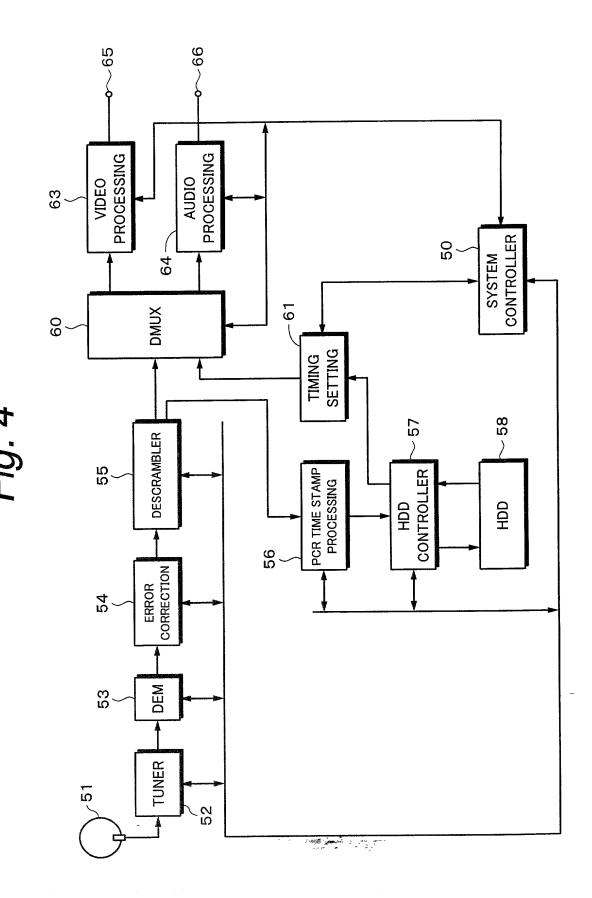


Fig. 5

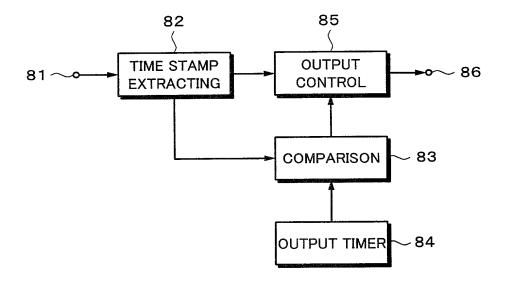
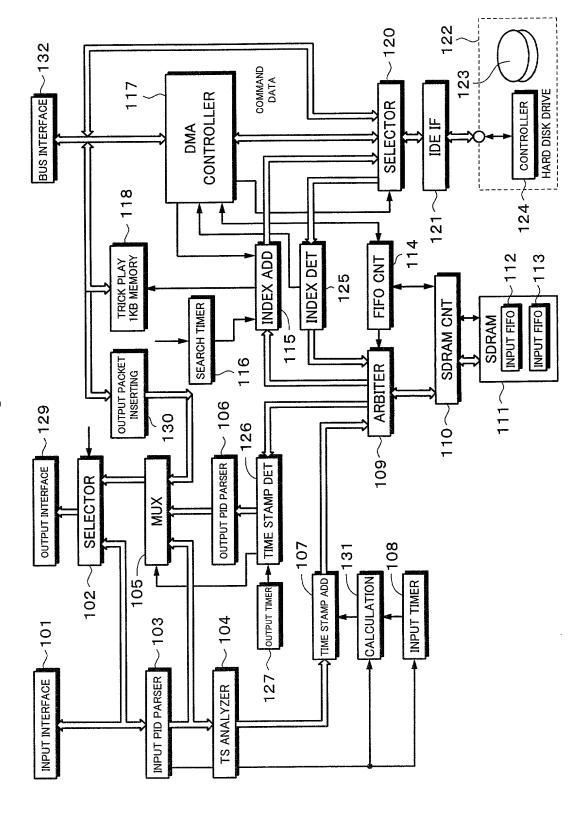
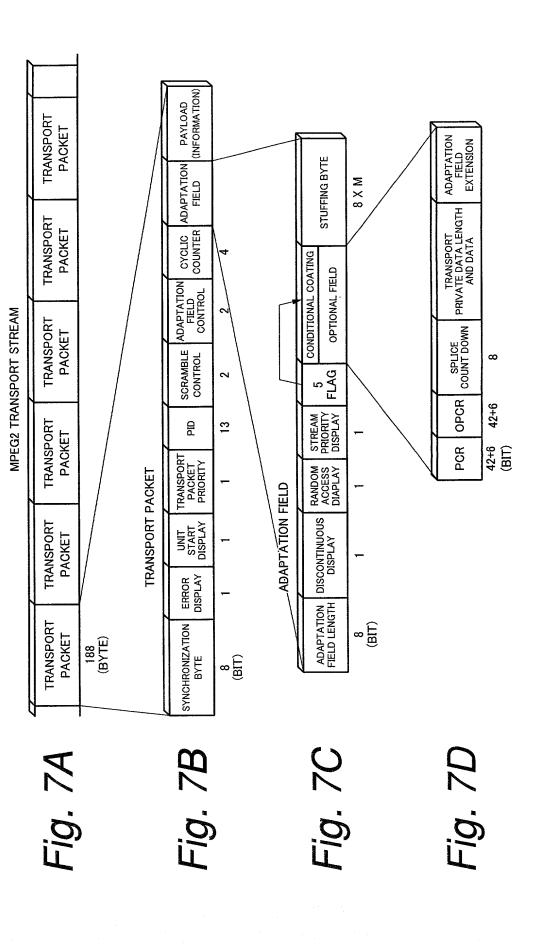


Fig. 6

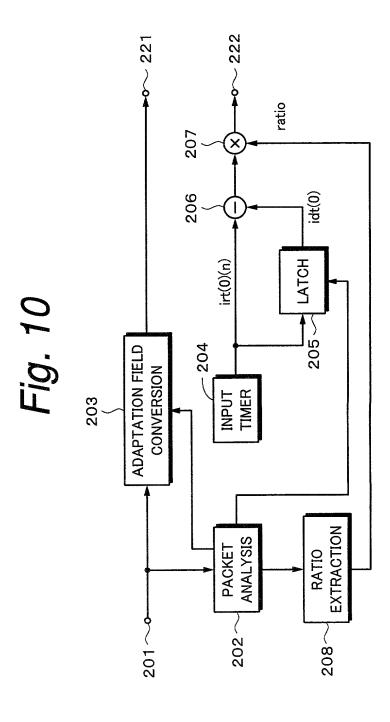




| | value | No. of Bits |
|--|--------|-------------|
| adaptation_field(){ | | |
| adaptation_field_length= | 183 | 8 |
| flags: | | |
| discontinuity_indicator= | 0 | 1 |
| random_access_indicator= | 0 | 1 |
| elementary_stream_priority_indicat | cor= 0 | 1 |
| PCR_flag= | 1 | 1 |
| OPCR_flag= | 0 | 1 |
| splicing_point_flag= | 0 | 1 |
| transport_private_data_flag= | 0 | 1 |
| adaptation_field_extension_flag= | 0 | 1 |
| PCR: | | |
| program_clock_reference_base= | x | 33 |
| reserved= | 0 | 6 |
| program_clock_reference_extensio | n= 0 | 9 |
| stuffing : | | |
| for(i=0: i <n: i++){<="" td=""><td></td><td></td></n:> | | |
| stuffing_Byte | 0 | 8 |
| } | | |
| | | |

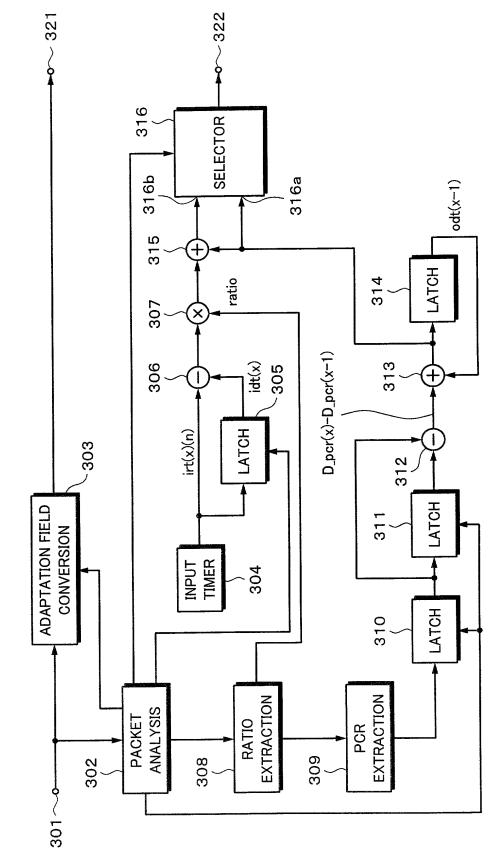
| | value | No. of Bits |
|--|-------|-------------|
| adaptation_field(){ | | |
| adaptation_field_length= | 183 | 8 |
| flags: | | |
| discontinuity_indicator= | 0 | 1 |
| random_access_indicator= | 0 | 1 |
| elemtary_stream_priority_indicator= | 0 | 1 |
| PCR_flag= | 0 | 1 |
| OPCR_flag= | 0 | 1 |
| splicing_point_flag= | 0 | 1 |
| transport_private_data_flag= | 1 | 1 |
| adaptation_field_extension_flag= | 0 | 1 |
| transport_private_data : | | |
| transport_private_data_length= | 7 | 8 |
| Dummy PCR: | | |
| dummy_program_clock_reference_base= | x | 33 |
| dummy_reserved= | 0 | 6 |
| dummy_program_clock_reference_extension= | 0 | 9 |
| Dummy Ratio : | | |
| output_ratio_int= | x | 5 |
| output_ratio_decimal= | x | 12 |
| output_ratio_reserved= | 0 | 7 |
| stuffing: | | |
| for(i=0: i <n: i++){<="" td=""><td></td><td></td></n:> | | |
| stuffing_Byte | 0 | 8 |
| } | | |

1



| | 14 | irt(0)(6) | ← 14 | R_P(0)(6) | | | ort(0)(6) | ←28 |
|----------|------|-----------|-----------------|-----------|--------------|-----------------|--------------------|----------------|
| | 12 | irt(0)(5) | ←12 | R_P(0)(5) | | | ort(0)(5) | ←24 |
| | 10 | irt(0)(4) | ← 10 | R_P(0)(4) | | | ort(0)(4) | ←20 |
| | 8 | irt(0)(3) | ← 8 | R_P(0)(3) | | | ort(0)(3) | ← 16 |
| | 6 | irt(0)(2) | ← 6 | R_P(0)(2) | | | ort(0)(2) | ←12 |
| <u> </u> | 4 | irt(0)(1) | ← 4 | R_P(0)(1) | | | ort(0)(1) | ← 8 |
| Δ2 - | 2 | irt(0)(0) | ←2 | R_P(0)(0) | | | ort(0)(0) | ← 4 |
| Δ1 | 0 | idt(0) | ← 0 | D_P(0) | pcr←0 | ratio ←2 | odt(0) | ← 0 |
| | TIME | INPUT PA | | | DUMMY PCR | RATIO | OUTPUT (TIME ST | |

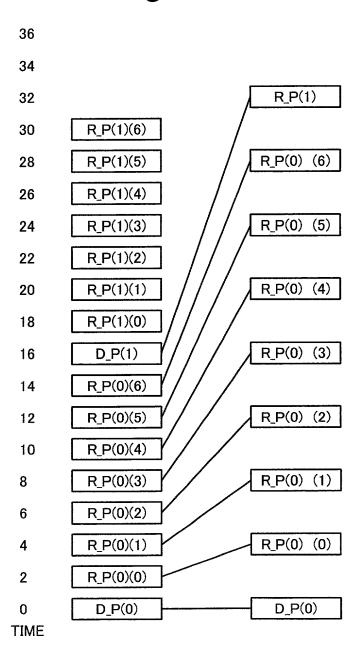




| | 30 | irt(1)(6) | ←30 | R_P(1)(6) | | | ort(1)(6) | ← 60 |
|---|-----------------------------|-------------------|----------------|-----------|--------------|-----------|--------------------|-----------------|
| | 28 | irt(1)(5) | ←28 | R_P(1)(5) | | | ort(1)(5) | ← 56 |
| | 26 | irt(1)(4) | ←2 6 | R_P(1)(4) | | | ort(1)(4) | ←52 |
| | 24 | irt(1)(3) | ←24 | R_P(1)(3) | | | ort(1)(3) | ←48 |
| | 22 | irt(1)(2) | ←22 | R_P(1)(2) | | | ort(1)(2) | ←44 |
| <u> </u> | 20 | irt(1)(1) | ←20 | R_P(1)(1) | | ort(1)(1) | ←40 | |
| Δ _. 12 | 18 | irt(1)(0) | ← 18 | R_P(1)(0) | | ort(1)(0) | ← 36 | |
| <u> </u> | ∆ 11 | idt(1) | ← 16 | D_P(1) | pcr←32 | ratio←2 | odt(1) | ←32 |
| | 14 | irt(0)(6) | ← 14 | R_P(0)(6) | | | ort(0)(6) | ←28 |
| | 12 | irt(0)(5) | ← 12 | R_P(0)(5) | | | ort(0)(5) | ←24 |
| | 10 | irt(0)(4) | ← 10 | R_P(0)(4) | | | ort(0)(4) | ← 20 |
| | 8 | irt(0)(3) | ← 8 | R_P(0)(3) | | | ort(0)(3) | ← 16 |
| $ \begin{array}{ccc} & & \\ & \downarrow \\ & \Delta 2 & & \\ & & \Delta 1 \end{array} $ | 6 | irt(0)(2) | ← 6 | R_P(0)(2) | | | ort(0)(2) | ←12 |
| | 4 | irt(0)(1) | ← 4 | R_P(0)(1) | | | ort(0)(1) | ← 8 |
| | 2 | irt(0)(0) | ←2 | R_P(0)(0) | | | ort(0)(0) | ← 4 |
| | $\frac{\Delta}{\sqrt{1}}$ 0 | idt(0) | ← 0 | D_P(0) | pcr←0 | ratio←2 | odt(0) | ← 0 |
| | TIME | INPUT PA REACH | | | DUMMY PCR | RATIO | OUTPUT (TIME ST | |

| 36 | | | |
|------|-----------|------------|-------------|
| 32 | D_P(1) | time stamp | ← 32 |
| 30 | | | |
| 28 | R_P(0)(6) | time stamp | ←28 |
| 26 | | | |
| 24 | R_P(0)(5) | time stamp | ←24 |
| 22 | | | |
| 20 | R_P(0)(4) | time stamp | ←20 |
| 18 | | | |
| 16 | R_P(0)(3) | time stamp | ← 16 |
| 14 | | | |
| 12 | R_P(0)(2) | time stamp | ← 12 |
| 10 | | | |
| 8 | R_P(0)(1) | time stamp | ←8 |
| 6 | | | |
| 4 | R_P(0)(0) | time stamp | ←4 |
| 2 | | | |
| 0 | D_P(0) | time stamp | ← 0 |
| TIME | | TIME STAMP | |

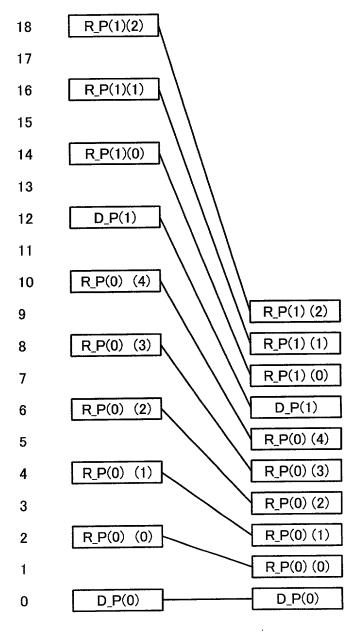
Fig. 15



| TIME | INPUT PA | | | DUMMY PCR | RATIO | OUTPUT | |
|------|------------|-----------------|------------|--------------|--------------------------------|------------|-------------|
| 0 | idt0 | ← 0 | D_P(0) | | ratio $\leftarrow \frac{1}{2}$ | | |
| 1 | | | | | | | |
| 2 | irt(0)(0) | ←2 | R_P(0)(0) | | | ort(0)(0) | ← 1 |
| 3 | ` | | | | | | |
| 4 | irt(0)(1) | ← -4 | R_P(0)(1) | | | ort(0)(1) | ←2 |
| 5 | 11 C(U/(m/ | v | 10 (0/(2) | | | (-/,-/ | - |
| 6 | irt(0)(2) | ← 6 | R_P(0)(2) | | | ort(0)(2) | ← 3 |
| 8 | irt(0)(3) | ~~0 | K_P(U)(3) | | | Of C(O)(3) | ed |
| 9 | :(0)(2) | 40 · | R_P(0)(3) | | | ort(0)(3) | ← _1 |
| | irt(0)(4) | ←10 | R_P(0)(4) | | | ort(0)(4) | ← 5 |
| 11 | | | | | | | |
| 12 | idt1 | ←12 | D_P(1) | pcr←6 | ratio $\leftarrow \frac{1}{2}$ | odt(1) | ← 6 |
| 13 | , | | | | | | |
| 14 | irt(1)(0) | ←14 | R_P(1)(0) | | | ort(1)(0) | ← 7 |
| 15 | | | <u></u> | | | | |
| | irt(1)(1) | ← 16 | R_P(1)(1) | | | ort(1)(1) | ←8 |
| 17 | | . 5 | 12. (1/12/ | | | | - |
| 18 | irt(1)(2) | ← 18 | R_P(1)(2) | | | ort(1)(2) | ← 9 |

| 9 | R_P(1)(2) | time stamp | ← 9 |
|------|-----------|------------|----------------|
| 8 | R_P(1)(1) | time stamp | ← 8 |
| 7 | R_P(1)(0) | time stamp | ← 7 |
| 6 | D_P(1) | time stamp | ← 6 |
| 5 | R_P(0)(4) | time stamp | ← 5 |
| 4 | R_P(0)(3) | time stamp | ← 4 |
| 3 | R_P(0)(2) | time stamp | ← 3 |
| 2 | R_P(0)(1) | time stamp | ←2 |
| 1 | R_P(0)(0) | time stamp | ← 1 |
| 0 | D_P(0) | time stamp | ← 0 |
| TIME | | TIME STAMP | |
| | | | |

Fig. 18



TIME